What is claimed is:

1. Polyethylene having:

a weight average molecular weight in the range of 150,000-1,000,000 g/mol;

a number average molecular weight of at least 25,000 g/mol;

a polydispersity in the range of 1.3-10; and

a wear coefficient of less than 3.2 10^{-4} mm^3/mN.

2. The polyethylene of claim 1, wherein said polyethylene has a wear coefficient below 2.9 10^{-4} mm^3/mN.

3. Polyethylene having:

a melt viscosity of less than 10^6 Pa.s; and

a wear coefficient below 2.4 10^{-4} mm^3/mN.

4. The polyethylene according to any one of claims 1-3, wherein said polyethylene has a weight average molecular weight below 700,000.

5. The polyethylene according to any one of claims 1-3, wherein said polyethylene has a weight average molecular weight below 500,000.

6. The polyethylene according to any one of claims 1-5, wherein said polyethylene has a weight average molecular weight of at least 250,000.

7. The polyethylene of according to any one of claims 1-6, wherein said polyethylene has a co-monomer content of less than 10 mol%.

8. The polyethylene according to any one of claims 1-7, wherein said polyethylene has a co-monomer content in the range of 0.5-5 wt%.

9. The polyethylene according to any one of claims 1-8, wherein said polyethylene has a wear coefficient below 2.0 10^{-4} mm^3/mN.

10. The polyethylene according to any one of claims 1-9, wherein said polyethylene has a polydispersity below 5.

11. The polyethylene according to any one of claims 1-9, wherein said polyethylene has a polydispersity in the range of 2-4.

12. The polyethylene according to any one of claims 1-11, wherein said polyethylene has a melting point of at least 100° C.

13. The polyethylene according to any one of claims 1-11, wherein said polyethylene has a melt viscosity of less than $5 \cdot 10^5$ Pa.s.

14. The polyethylene according to any one of claims 1-13, wherein said polyethylene has a number average molecular weight of at least 100,000 g/mol.

15. A process comprising melt-processing the polyethylene according to any one of claims 1-14.

16. The process of claim 15, wherein said process includes injection molding said polyethylene.

17. An article obtainable by the process according to any one of claims 15-16.

18. An article comprising the polyethylene according to any one of claims 1-14.

19. Use of the polyethylene according to any one of claims 1-14.

20. A sliding member comprising a polyethylene, said polyethylene having:

a weight average molecular weight below 1,000,000 g/mol; and

a wear coefficient of less than 3.2 10^{-4} mm^3/mN.